

IN /04-15/9% OUT 05-21-96	
IN 04-15/96 OUT 05-21-96 Reviewed by Bruce H. Mann Date 05-21-96	
LAN Code	114
EPA Reg. No. or File Symbol # 1839-95	
EPA Petition or EUP No. None	
Date Division Received 02-26-96	
Type Product Hospital Disinfectant	
MRID No (s) Data submitted under MRID's 4393763-01.	
Product Manager PM-31 (Johnson)	
Product Name NP 4.5 D & F Detergent/Disinfectant	
Company Name Stepan Company	
Submission Purpose An amendment to add additional test organ:	ism
"methicillin resistant Staphylococcus aureu	
to the product proposed label dated 02-26-9	36.
Type of Formulation A liquid concentrate to be diluted for us	se.
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n-Alkyl (C14, 60%;C16,30%;C12,5%; C18,5%) dimethyl benzyl ammonium chlorides	2.25
n-Alkyl (C12, 68%; C14, 32%)	
dimethyl ethylbenzyl ammonium chlorides	4.25
200.0 <u>Introduction</u>	
200.1 Uses: Refer to the proposed label, dated 08-31-95. Als	30,
refer to the latest accepted label dated 09-19-89. 200.2 Background Information:	
The current submission received 04-15-96, is a register one-step disinfectant cleaner for hospital or general to	
areas. The current submission is an amendment which	
includes a proposed disinfectant efficacy claim for the addition of methicillin resistant Staphylococcus aure	
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201.0 Data Summary: 201.1 Brief Description:	

Efficacy Data report for "NP 4.5 (D & F)" (EPA Reg. No. 1839-95)-Organic Soil Load. The study was submitted by Victor Viasaty, Stepan Company, Northfield, IL 60093

201.2 Test Summaries:

Disinfection-Additional Test Data with Organic Soil.

- Method: AOAC Use dilution Method, 16th ed., 1995.
 Samples tested: Ref no. 1900-48 and no. 1900-49.
- Modifications: 5% (v/v) horse serum included with the bacterial inoculum.
 Bacterial survival on carriers determined after drying onto the surface at 36°C for 40 minutes.
- Dilution: Tested at 2 ounces/gallon (2:128) by adding 4mls of test substance to 252 mls of sterile deionized water.
- 4. Exposure: 10 minutes at 20°C.
- 5. Results: The tested products showed no growth in any of the 10 primary subcultures tubes after a 10 minute exposure time in the presence of a 5% horse serum load.
- 6. The tested products showed satisafactory performance as a disinfectant against the additional test microorganism under the test conditions when used at a dilution of 2 ounces/gallon.
- 202.0 Recommendations:
- 202.0 Claims Related to Human Health:
- 202.1 Efficacy Supported by the Data:

 The submitted efficacy data generated by the AOAC Use
 Dilution Test Method are acceptable to support effectiveness
 of the product as a one-step cleaner disinfectant in the
 presence of light or moderate amount organic soil (5%) horse
 serum for hosptial use (vs. Staphylococcus aureus
 methicillin reistant) on hard nonporous, surfaces which are
 thoroughly wetted by the solution and allowed to remain wet
 for a contact time of 10 minutes before wiping.

203.0 Labeling comments:

The subject product proposed label NP 4.5 (D & F) Detergent Disinfectant dated 02-26-96 should be revised to reflect the following instructions:

- On the middle panel of the proposed label, there are no adverse comments.
- On the left panel, and under virucidal activity, revise the phrase "... on environmental, inanimate hard surfaces..." to read "... on environmental, inanimate hard nonporous surfaces...".
- 3. There are no adverse comments on the right panel.